

# INTERNATIONAL SEARCH REPORT

International Application No.  
PC1/JP2005/002086

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 H04L12/46 H04L12/40 H04L29/06

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 H04L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2003/169769 A1 (HO JIN-MENG ET AL) 11 September 2003 (2003-09-11) abstract paragraphs '0015!, '0027!, '0041! - '0046!; figure 6	1-23
X	US 6 665 313 B1 (CHANG HOON ET AL) 16 December 2003 (2003-12-16) abstract column 3, line 3 - line 15 column 6, line 6 - column 7, line 23; figures 5-10	1-23
X	US 2003/210673 A1 (NISHIMURA TAKUYA) 13 November 2003 (2003-11-13) abstract; claims 1-3; figures 2-6 paragraph '0069!	1,8, 15-17

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

\* Special categories of cited documents:

- 'A' document defining the general state of the art which is not considered to be of particular relevance
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- 'O' document referring to an oral disclosure, use, exhibition or other means
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- 'T' later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
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Date of the actual completion of the international search

20 April 2005

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2003/235197 A1 (WENTINK MAARTEN MENZO) 25 December 2003 (2003-12-25) abstract paragraphs '0002! - '0017!, '0046! - '0070!; claims 1,2; figures 4-9 -----	1,8, 15-17
X	WO 03/071744 A (MOTOROLA INC; DOYLE, JOHN; LOGAN, JOHN; ROHLER, MICHAEL; PICKERING,) 28 August 2003 (2003-08-28) abstract; claims 1,2; figures 1-4 -----	15,16

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## Information on patent family members

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 2003169769	A1	11-09-2003	NONE	
US 6665313	B1	16-12-2003	KR 2000074178 A AU 758985 B2 AU 4618100 A BR 0010384 A CA 2371086 A1 CN 1352850 A DE 20023164 U1 EP 1177671 A1 JP 2002544717 T WO 0069147 A1 RU 2217869 C2 US 2004120348 A1	05-12-2000 03-04-2003 21-11-2000 19-03-2002 16-11-2000 05-06-2002 06-03-2003 06-02-2002 24-12-2002 16-11-2000 27-11-2003 24-06-2004
US 2003210673	A1	13-11-2003	JP 2003324445 A	14-11-2003
US 2003235197	A1	25-12-2003	NONE	
WO 03071744	A	28-08-2003	GB 2385752 A AU 2002356609 A1 WO 03071744 A1 EP 1476986 A1	27-08-2003 09-09-2003 28-08-2003 17-11-2004